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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/680,017	10/05/2000	Vipul Bansal	JP920000236US1	8559
7590 12/22/2004		EXAMINER		
McGinn & Gibb PLLC Suite 304 2568 A Riva Road			REAGAN, JAMES A	
Annapolis, MD 21401			ART UNIT	PAPER NUMBER
			3621	
			DATE MAILED: 12/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)			
		09/680,017	BANSAL ET AL.			
	Office Action Summary	Examiner	Art Unit			
		James A. Reagan	3621			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
THE N - Exten after: - If the - If NO - Failui Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Is ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 22 O	<u>ctober 2004</u> .				
	a)⊠ This action is <b>FINAL</b> . 2b)□ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	7) Claim(s) is/are objected to.					
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the for drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12) <u></u> / a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureautee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment	• •					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da				
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		atent Application (PTO-152)			

## **DETAILED ACTION**

## Status of Claims

- 1. Claims 1, 9, and 17 have been amended.
- 2. Claims 2, 4, 10, 12, 18, and 20 have been cancelled.
- 3. The rejections of claims 1, 3, 5-9, 11, 13-17, 19, and 21-24 have been updated to reflect the amended limitations.
- 4. Claims 1, 3, 5-9, 11, 13-17, 19, and 21-24 have been examined.

## **RESPONSE TO ARGUMENTS**

Applicant's arguments received on have been fully considered but they are not persuasive.

Referring to the previous Office action, Examiner has cited relevant portions of the references as a means to illustrate the systems as taught by the prior art. As a means of providing further clarification as to what is taught by the references used in the first Office action, Examiner has expanded the teachings for comprehensibility while maintaining the same grounds of rejection of the claims, except as noted above in the section labeled "Status of Claims." This information is intended to assist in illuminating the teachings of the references while providing evidence that establishes further support for the rejections of the claims.

With regard to the limitations of claims 1, 9, and 17 Applicant argues that the prior art of reference dos not disclose a dynamic negotiations nor software agents. The Examiner respectfully disagrees and points to the rejections below, wherein Krishnaswamy discloses a dynamic auction process. In addition, Ferstenberg discloses electronic agents i.e. software agents.

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Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as

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set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said

subject matter pertains. Patentability shall not be negatived by the manner in which the invention

was made.

7. Claims 1, 3, 4, 6-11, 15-19, and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Miller at al. (US 5,640,569 A) in view of Krishnaswamy et al. (US 5,867,494 A), view of Gray

et al. (US 2002-0082856 A1), and further in view of Ferstenberg et al. (US 5,873,071 A).

8.

Examiner's note: Examiner has pointed out particular references contained in the prior art of

record in the body of this action for the convenience of the Applicant. Although the specified

citations are representative of the teachings in the art and are applied to the specific limitations

within the individual claim, other passages and figures may apply. Applicant, in preparing the

response, should consider fully the entire reference as potentially teaching all or part of the

claimed invention, as well as the context of the passage as taught by the prior art or disclosed by

the Examiner.

Claims 1-3, 8-11, 16-19, and 24:

With regard to the limitations of:

providing different levels of service by dynamically allocating and pricing said

resources based on customers' changing needs, and their willingness to pay for

different service levels.

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- wherein said allocation occurs using a dynamic negotiation between said customers and said resource center, and wherein said dynamic negotiation comprises any of:
  - said customers requesting said resource center to acquire and release resources at any time;
  - said resource center conducting an auction of all available resources in a shared resource pool at predetermined intervals to determine said allocation and price of said resources for a subsequent time interval; and
  - said resource center publishing said prices at which said resources of a shared resource pool can be acquired or released by said customers, whereby said customers use said prices for determining whether to request releasing or acquiring said resources;
- mechanism for conducting an online auction of said resources by the resource
  center in case of non-availability of adequate idle resources to meet a customer
  request followed by re-allocation of said resources to said customers, updating of
  billing information and pricing based on the results of the auction of resources,
- mechanism for conducting an online auction of resources at pre-specified intervals
  of time followed by re-allocation of said resources to said customers, updating of
  billing information and pricing based on results of the auction of resources,
- mechanism for publishing the current prices for each class of resources at any
  point of time and means for updating the current prices dynamically based on
  requests for release or acquisition of resources by customers, followed by
  updating of billing information,
- mutual online negotiations can take place between software-based agents
   representing said customers and said resource center,

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- said means for dynamically allocating and pricing resources is through mutual online negotiations between said customers and said resource center through electronic communications
- the arrangement being such that said mechanisms operate either individually or together in any combination of at least two mechanisms depending upon the requirement.
- said resources in a resource center includes servers, storage media, software applications and bandwidth of communication link connecting said servers center to a network.

Miller, in at least the abstract and column 2, line 58 to column 3, line 30; discloses allocation of computer resources based on a bidding auction system. Miller does not specifically disclose dynamic allocation of resources, but Krishnaswamy, in column 31, lines 48-51 does. Krishnaswamy also discloses specialized billing methods (see at least column 20, lines 35-39) and service level agreements, inherently disclosing different levels of service (column 30, lines 8-13). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Miler's online auctioning system for allocating resources with Krishnaswamy's dynamic allocations of resources and associated billing practices because "The cheaper a resource becomes, the more important it becomes to have automatic management of that resource in a principled fashion. This is because the increased capacity makes it possible to apply that resource to lower-value uses. When a resource is expensive, all uses, in order to be worth the amount they consume, must exceed some minimum value to their users, so all uses of an expensive resource have high and comparable values" (Miller, column 1, lines 14-22).

Although the combination of Miller/Krishnaswamy essentially discloses redistributing resources between consumers in an auction environment, the newly added limitation of wherein said allocating of said resources comprises transferring, by said resource center, said resources from one customer to another customer is not specifically disclosed. Gray, however, in at least

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paragraph 0036 discloses rebalancing and redistribution of resources. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Miler's online auctioning system for allocating resources and Krishnaswamy's dynamic allocations of resources and associated billing practices with gray's redistribution technique because balancing resources ensures maximum use and profitability.

Ferstenberg, in column 3, lines 22-41, discloses e-agents that conduct electronic negotiations according to rules established by a participant. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Miller/Krishnaswamy dynamic allocations of resources and associated billing practices with Ferstenberg's electronic negotiating agents because "...it permits the participant the flexibility to dynamically adapt to market conditions that affect the price and availability of individual commodities" (Ferstenberg column 2, lines 39-43).

# Claims 6, 14, and 22:

With regard to the limitations of said current prices comprise the current price at which resources are allocated to customers, the new price that would prevail if specified units of resources are released by customers and the new price that would prevail if specified units of resources are acquired by the customers, Miller, in column 2, lines 12-25, discloses various pricing/bidding schemes and auction formats.

# Claims 7, 15, and 23:

With regard to the limitation of each class of resources has some units dedicated to specific customers and the remaining units can be dynamically allocated to customers by the resource center, the combination of Miller/Krishnaswamy, as shown above, discloses various auction techniques. Miller/Krishnaswamy do not specifically state that certain resources are set-aside for certain customers. However, Examiner takes **Official Notice** that it is old and well known in the goods and services supply arts to maintain regular and repeat customers that

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routinely request and expect a standard amount of product to be supplied to them on a habitual basis. Dedicating a specific or minimum amount of the supply to specific recurring clients provides consistent throughput and profit.

9. Claims 5, 13, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller/Krishnaswamy et al. (US 5,867,494 A) and further in view of Ferstenberg et al. (US 5,873,071 A).

# Claims 5, 13, and 21:

The combination of Miller/Krishnaswamy discloses the online allocation auction and billing above. Miller/Krishnaswamy do not specifically disclose:

- means enabling the customers to provide price and service level related inputs to their respective software-based agents,
- means for said software-based agents representing customers to monitor the usage of resources allocated to them and the levels of service being obtained, and
- means for said software-based agents representing customers to use.
- said inputs from said customers and said usage and/or said levels of service being obtained to dynamically determine when to request the software agent representing the resource center for acquiring or releasing resources at various prices;

Ferstenberg, however, in column 3, lines 22-41, discloses e-agents that conduct electronic negotiations according to rules established by a participant. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Miller/Krishnaswamy dynamic allocations of resources and associated billing practices with Ferstenberg's electronic negotiating agents because "...it permits the participant the flexibility to dynamically adapt to market

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conditions that affect the price and availability of individual commodities" (Ferstenberg column 2, lines 39-43).

## Conclusion

- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 11. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **James A. Reagan** whose telephone number is **(703) 306-9131**. The examiner can normally be reached on Monday-Friday, 9:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **James Trammell** can be reached at (703) 305-9768.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Receptionist** whose telephone number is **(703) 305-3900**. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://portal.uspto.gov/external/portal/pair">http://portal.uspto.gov/external/portal/pair</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

## **Commissioner of Patents and Trademarks**

Washington, D.C. 20231

or faxed to:

(703) 305-7687 [Official communications; including

After Final communications labeled "Box AF"]

(703) 308-1396 [Informal/Draft communications, labeled "PROPOSED"

or "DRAFT"]

Hand delivered responses should be brought to Crystal Park 5, 2451 Crystal Drive, Arlington, VA, 7<sup>th</sup> floor receptionist.

JAR

15 December 2004